Amendments to the Claims

The following Listing of Claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A method for synchronizing data on a device in communication with a client system, said method comprising:

receiving, by a control virtual driver executing on a server, an event notification that a device, is in communication with a client system via a USB connection, is bound in part

binding, by a redirector virtual driver executing on the server, the event notification to a port number associated with within a virtual communication channel to generate binding information associated with the device;

mapping, by a driver mapping module executing on the server and responsive to receipt of the notification, the device into a user session hosted by the a server communicating with said client system via a presentation-level protocol and via the port referenced in the binding information;

executing, by said server within the user session, an instance of an application; and

synchronizing, by a synchronization application, a collection of data on said device with a collection of data accessible from said user session as a result of the execution of said application instance.

2. (Previously presented) The method of claim 1 wherein mapping the device further comprises mapping a device communicating with the client system via a WI-FI communication protocol.

3. (Previously presented) The method of claim 1 wherein mapping the device further comprises mapping a device communicating with the client system via an IR serial communication protocol.

4. (Previously presented) The method of claim 1 wherein said device communicates with the client system using a Bluetooth serial communication protocol.

5. (Previously presented) The method of claim 1 wherein said device communicates with the client system using a wireless USB/ultra-wideband wireless communication protocol.

6. (Previously presented) The method of claim 1 further comprising:

     synchronizing a collection of data on the device with a collection of data accessible from the user session as a result of the execution of an application instance that uses socket communication for inter-process communications; and

     hooking a socket call within the user session.

7. (Original) The method of claim 6 wherein said hooking is virtual loop-back address hooking.

8. (Original) The method of claim 6 wherein said hooking is virtual IP address hooking.

9. (Previously presented) The method of claim 1 further comprising:

     synchronizing a collection of data on the device with a collection of data accessible from the user session as a result of the execution of an application that uses socket communication for inter-process communications; and

     hooking a socket call on the server.

10. (Cancelled).

11. (Original) The method of claim 1 wherein the client system is a proxy client.

12. (Original) The method of claim 11 wherein the proxy client is hosted on the same server supporting the user session.

13. (Original) The method of claim 11 wherein the proxy client is hosted on a different server than the server supporting the user session.

14. (Currently amended) The method of claim 1, further ~~A method for synchronizing data on a~~

~~device in communication with a client system, said client system communicating with a server using a presentation-level protocol, said method~~ comprising:

determining the identity of <u>the</u> ~~a~~ device in communication with said client system; <u>and</u>

determining that the device is a member of a registered device class~~;~~

~~creating a notification indicating that the device is in communication with the client system and that the device is bound in part to a port number within a virtual communication channel;~~

~~directing the notification to an instance of an application executing within a user session hosted by the server and~~

~~synchronizing a collection of data on said device with a collection of data accessible from said user session as a result of the execution of said application instance.~~

15-18. (Cancelled).

19. (Currently amended) A system for synchronizing data on a device in communication with a client system, the system comprising:

a client system executing a presentation-level protocol to communicate with a server system, said client system including an event manager to generate event notifications based on a communication received from a device interfacing with said client system;

the device communicating with said client system and having a collection of data<u>;</u>

<u>a control virtual driver executing on the server system to receive the event notifications</u>~~;~~<u>;</u>

<u>a redirector virtual driver executing on the server system to bind the event notifications</u> ~~the device bound in part~~ to a port number <u>associated with</u> ~~within the at least one~~ <u>a</u> virtual communication channel <u>to generate binding information associated with the device; and</u>

the server system communicating with said client system via a presentation-level protocol, and hosting ~~host~~ at least one user session executing an instance of an application used to synchronize the collection of data on said device with a collection of data accessible from said user session.

20. (Original) The system of claim 19 wherein said event manager is a Plug and Play event manager and said event notification is a Plug and Play event notification.

21. (Previously presented) The system of claim 19 further comprising:

an application instance using socket communication for inter-process communications; and

the application instance synchronizing the collection of data on the client with the collection of data accessible from the server by allowing the server to hook a socket call made by the application instance.

22. (Original) The system of claim 21 wherein the socket call is hooked within the user session.

23. (Original) The system of claim 21 wherein the socket call is hooked using virtual IP address hooking.

24. (Original) The system of claim 21 wherein the socket call is hooked using virtual loop-back address hooking.

25. (Currently amended) A computer-readable medium having instructions executable by a processor to synchronize data on devices communicating with a client system with data on a server, the computer readable medium comprising:

instructions for receiving, by a control virtual driver executing on a server, and event ~~a~~ notification that a device~~,~~ is in communication with a client system via a USB connection~~, is bound in part to~~;

instructions for binding, by a redirector virtual driver executing on the server, the event notification to a port number associated with ~~within~~ a virtual communication channel to generate binding information associated with the device;

instructions for mapping, by a driver mapping module executing on the server and responsive to receipt of the notification, the device into a user session hosted by the ~~a~~ server communicating with said client via a presentation-level protocol and via the port referenced in the binding information;

instructions for executing, by the server within the user session, an instance of an application; and

instructions for synchronizing, by a synchronization application, a collection of data on said device with a collection of data accessible to said session as a result of the execution of said application instance.

26. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system using a wireless USB/ultra-wideband wireless communication protocol.

27. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system using an IR serial communication protocol.

28. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system via a Bluetooth serial communication protocol.

29. (Previously presented) The computer readable medium of claim 25 further comprising:

instructions for executing an instance of an application using socket communication for inter-process communications; and

instructions for synchronizing a collection of data on said device with a collection of data accessible to the user session include instructions for hooking a socket call within the session.

30. (Previously presented) The computer readable medium of claim 29 wherein said hooking is virtual loop-back address hooking.

31. (Previously presented) The computer readable medium of claim 29 wherein said hooking is virtual IP address hooking.

32. (Currently amended) The computer readable medium of claim 25 wherein said application instance uses socket communication for inter-process communications and the computer-readable medium program means for synchronizing a collection of data on said device in communication with the client system further comprises: instructions computer-readable program means for hooking a socket call on the server console.

33. (Cancelled).

34. (Currently amended) ~~A~~ The computer-readable medium of claim 25, further ~~having instructions executable by a processor to synchronize data on a device in communication with a client system with a collection of data accessible from a server, the computer readable medium~~ comprising:

      instructions for determining the identity of the ~~a~~ device in communication with the client system via a USB connection, said client system communicating with a server using a presentation-level protocol; and

      instructions for determining that the device is a member of a registered device class~~;~~

      ~~instructions for creating a notification indicating that the device is in communication with the client and that the device is bound in part to a port number within a virtual communication channel;~~

      ~~instructions for directing the notification to an instance of an application executing within a user session hosted by a server; and~~

      ~~instructions for synchronizing, responsive to the notification, a collection of data on said device in communication with the client system with a collection of data accessible to said server as a result of the execution of said application instance~~.

35-39. (Cancelled).

40. (Currently amended) The ~~A~~ method of claim 14, wherein the device communicates ~~for synchronizing data on a device in communication~~ with a client system~~, said method comprising:~~

      ~~determining the identity of a device in communication~~ with the client system via a USB connection~~;~~

      ~~determining that the device is a member of a registered device class;~~

      ~~creating a notification indicating that the device is in communication with the client system and that the device is bound in part to a port number within a virtual communication channel;~~

~~directing the notification to an application executing on a server communicating with the~~
~~client system via a presentation-level protocol; and~~

~~synchronizing, responsive to the notification, a collection of data on said device in~~
~~communication with the client system with a collection of data accessible from said server as a~~
~~result of the execution of said application.~~

41-43. (Cancelled).

44. (Currently amended) The ~~A~~ system of claim 19, wherein the device interfaces with the client
system via a USB connection ~~for synchronizing data on a device in communication with a client~~
~~system, comprising:~~

~~a client system communicating with a server system via a presentation-level protocol,~~
~~said client system including an event manager to generate event notifications based on a~~
~~communication received from the device interfaced with said client system via a USB~~
~~connection;~~

~~a device communicating with said client system, said device having a collection of data~~
~~and the device bound in part to a port number within the at least one virtual communication~~
~~channel;~~

~~a server system communicating with said client system and executing an application used~~
~~to synchronize the collection of data on said device in communication with the client system~~
~~with a collection of data accessible to said server.~~

45. (Original) The system of claim 44 wherein said event manager is a Plug and Play event
manager and said event notification is a Plug and Play event notification.

46. (Currently amended) The method of claim 1, further ~~A method for synchronizing data on a~~
~~device in communication with a client system, said method~~ comprising:

~~providing a client system communicating with a server using a presentation-level~~
~~protocol;~~

intercepting at least one device enumeration method in a session hosted by the server,
said enumeration method enumerating at least one device communicating with the client~~;~~

~~receiving notification that the at least one device is bound in part to a port number within a virtual communication channel;~~

~~mapping, responsive to receipt of the notification, said at least one device into a user session hosted by the server based on the results of said enumeration method, said user session including an executing instance of an application; and~~

~~synchronizing a collection of data on said at least one device with a collection of data accessible from said user session as a result of the execution of said application instance.~~

47-48. (Cancelled).